

## IN THE CLAIMS

1 (currently amended). A method for signaling of information in a frame based transmission system, whereat signaling information contains information necessary for the operation of the transmission system,

characterized by steps of

inserting a bit sequence of signaling information related to an individual frames into said individual frames, and

partitioning said bit sequence of signaling information and inserting said partitioned bit sequence of signaling information into frames other than said individual frames.

2 (previously amended). A method according to claim 1,

characterized in that

said inserted signaling information and said inserted partitioned signaling information are synchronized by using the given synchronization of the frame based transmission system.

3 (currently amended). A method for signaling of information in a frame based transmission system, whereat the signaling information contains information necessary for the operation of the transmission system,

characterized ~~in that~~ by steps of

inserting a bit sequence of signaling information related to an individual frames into said individual frames, and

partitioning said bit sequence of signaling information and inserting said partitioned bit sequence of signaling information into frames other than said individual frames, wherein said bit sequence of signaling information and said partitioned bit sequence of signaling information indicate a coding mode used for coding and decoding data in the transmission system.

4 (currently amended). A method according to claim 1,

characterized in that

said inserted bit sequence of signaling information related to an individual frames indicates a coding mode used for coding and decoding data in the transmission system, said partitioned bit sequence of signaling information inserted into different frames of the uplink is a quality criterion for the transmission, and

said partitioned bit sequence of signaling information inserted into frames other than said individual frames of the downlink indicates a coding mode used for coding and decoding data in the transmission system.

5 (previously amended). A method according to claim 1, characterized in that said inserted signaling information related to individual frames is channel coded separately.

6 (currently amended). A method according to claim 1, characterized in, that said partitioned bit sequence of signaling information inserted into frames other than said individual frames is channel coded together with data contained in said other ~~different~~ frames.

7 (previously amended). A method according to claim 1, characterized in that the transmission system is a radio network system.

8 (previously amended). A method according to claim 7, characterized in that said radio network system is a GSM system.

9 (currently amended). A frame based transmission system for signaling of information, whereat the signaling information contains information necessary for the operation of the transmission system, having

means for coding and decoding of data (10,11;20,21),  
means for handling the coded data in frame format (14;24), and  
means for transmitting and receiving the frames (15,16;25,26),

characterized by

means for inserting and evaluating a bit sequence of signaling information (12;22) into and from an individual frames to which said bit sequence relates ~~related to said individual frames~~, and

means for partitioning said bit sequence of signaling information (12;22) and inserting and evaluating said partitioned bit sequence of information into and from frames other than said individual frames.

10 (previously amended). A system according to claim 9, characterized in that means for synchronizing (10,11,14;20,21,24) are used to synchronize said inserted signaling information and said inserted partitioned signaling information according to the given synchronization of the frame based transmission system.

11 (currently amended). A frame based transmission system for signaling of information, whereat the signaling information contains information necessary for the operation of the transmission system, having

means for coding and decoding of data (10, 11; 20, 21),  
means for handling the coded data in frame format (14; 24), and  
means for transmitting and receiving the frames (15, 16; 25, 26),

characterized by

means for inserting and evaluating a bit sequence of signaling information (12; 22) into and from an individual frames to which said bit sequence relates ~~related to said individual frames~~, and

means for partitioning said bit sequence of signaling information (12; 22) and inserting and evaluating said partitioned bit sequence of information into and from frames other than said individual frames, wherein means for channel coding and decoding (13; 23) are used to channel code and decode the bit sequence of signaling information provided by said means for inserting and evaluating said bit sequence of signaling information (12; 22) into and from said individual frames.

12 (currently amended). A system according to claim 9,  
characterized in that  
the means for channel coding (11;21) are used to channel code and decode the  
partitioned bit sequence of signaling information provided by said means for partitioning  
said bit sequence of signaling information (12;22) and inserting and evaluating said  
partitioned bit sequence of information into and from frames other than said individual  
frames.

13 (previously amended). A system according to claim 9,  
characterized in that  
the transmission system is a radio network system.

14 (previously amended). A system according to claim 13,  
characterized in that  
said radio network system is a GSM system.

15 (currently amended). A system according to claim 9,  
characterized in that  
said bit sequence of signaling information provided by said means for inserting  
and evaluating signaling information (12;22) into and from an individual frames to which  
said bit sequence relates and said partitioned bit sequence of signaling information  
provided by said means for partitioning said bit sequence of signaling information  
(12;22) and inserting and evaluating said partitioned bit sequence of information into and  
from frames other than said individual frames indicate coding modes used by the means  
for coding and decoding (10,11;20,21).

16 (previously amended). A system according to claim 15,  
characterized in that  
said system is a fixed part (1) of said radio network system.

17 (currently amended). A system according to claim 9,  
characterized in that

said bit sequence of signaling information provided by said means for inserting  
and evaluating said bit sequence of signaling information (12;22) into and from an  
individual frames to which said bit sequence relates indicate coding modes used by the  
means for coding and decoding (10,11;20,21), and said partitioned bit sequence of  
signaling information provided by said means for partitioning said bit sequence of  
signaling information (12;22) and inserting and evaluating said partitioned bit sequence  
of information into and from frames other than said individual frames indicate a quality  
criterion for transmission.

18 (previously amended). A system according to claim 17,  
characterized in that

said system is a mobile part (2) of said radio network system.

19 (previously amended). A system according to claim 18,  
characterized in that

said quality measurement for transmission is evaluated by said mobile part (2) of said  
radio network system, based on frames received from said fixed part of said radio  
network system.

**THE REMAINING PORTION OF THIS PAGE IS INTENTIONALLY LEFT BLANK**